

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	· FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/900,771	07/06/2001	Ichiro Mase	P/2856-22	7693	
7	590 07/13/2005		EXAM	INER	
Steven I. Weisburd			BERNATZ, KEVIN M		
Dickstein Shapiro Morin & Oshinsky LLP			ART UNIT	PAPER NUMBER	
41st Floor New York, NY 10036-2714			1773 DATE MAILED: 07/13/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Advisory Action	09/900,771	MASE ET AL.					
Before the Filing of an Appeal Brief	Examiner	Art Unit					
	Kevin M. Bernatz	1773					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
THE REPLY FILED 29 June 2005 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.							
 The reply was filed after a final rejection, but prior to or o this application, applicant must timely file one of the folloplaces the application in condition for allowance; (2) a No (3) a Request for Continued Examination (RCE) in comp following time periods: The period for reply expires 3 months from the mailing date of 	wing replies: (1) an amendment, a otice of Appeal (with appeal fee) in liance with 37 CFR 1.114. The repl	ffidavit, or other evide compliance with 37 C	nce, which FR 41.31; or				
b) The period for reply expires on: (1) the mailing date of this Adv event, however, will the statutory period for reply expire later the	isory Action, or (2) the date set forth in th		is later. In no				
Examiner Note: If box 1 is checked, check either box (a) or (b). MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f)	ONLY CHECK BOX (b) WHEN THE FI	•	WITHIN TWO				
Extensions of time may be obtained under 37 CFR 1.136(a). The date on been filed is the date for purposes of determining the period of extension a CFR 1.17(a) is calculated from: (1) the expiration date of the shortened states above, if checked. Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	nd the corresponding amount of the fee. atutory period for reply originally set in the	The appropriate extension final Office action; or (2) a	fee under 37 as set forth in (b)				
 The Notice of Appeal was filed on A brief in complete of filing the Notice of Appeal (37 CFR 41.37(a)), or any expressions of Since a Notice of Appeal has been filed, any reply must be AMENDMENTS 	xtension thereof (37 CFR 41.37(e))), to avoid dismissal of	the appeal.				
 The proposed amendment(s) filed after a final rejection, 	but prior to the date of filing a brie	f. will not be entered b	ecause				
(a) They raise new issues that would require further co	nsideration and/or search (see NO		,				
 (b) They raise the issue of new matter (see NOTE belo (c) They are not deemed to place the application in bein appeal; and/or 		educing or simplifying	the issues for				
(d) They present additional claims without canceling a NOTE: (See 37 CFR 1.116 and 41.33(a)).		jected claims.					
4. 🔲 The amendments are not in compliance with 37 CFR 1.1	21. See attached Notice of Non-Co	ompliant Amendment	(PTOL-324).				
5. Applicant's reply has overcome the following rejection(s6. Newly proposed or amended claim(s) would be a		, timely filed amendme	ent canceling				
the non-allowable claim(s). 7. For purposes of appeal, the proposed amendment(s): a) will not be entered, or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows:							
Claim(s) allowed: Claim(s) objected to:							
Claim(s) rejected: Claim(s) withdrawn from consideration:		•					
 AFFIDAVIT OR OTHER EVIDENCE The affidavit or other evidence filed after a final action, because applicant failed to provide a showing of good an and was not earlier presented. See 37 CFR 1.116(e). 	ut before or on the date of filing a N d sufficient reasons why the affida	Notice of Appeal will <u>no</u> vit or other evidence is	ot be entered necessary				
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to c showing a good and sufficient reasons why it is necessar	vercome <u>all</u> rejections under appe y and was not earlier presented. S	al and/or appellant fail See 37 CFR 41.33(d)(1	s to provide a).				
10. ☐ The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after e	entry is below or attach	ned.				
 The request for reconsideration has been considered bu See Continuation Sheet. 			ice because:				
12. Note the attached Information Disclosure Statement(s).	(PTO/SB/08 or PTO-1449) Paper	No(s)					
12. Note the attached Information Disclosure Statement(s). 13. Other:	Kevin M. Bernatz, PhD	∠ MD					
	Kevin M. Bernard Primary Examiner	KMB July 12, 2005					

Continuation of 11. does NOT place the application in condition for allowance because: regarding applicants' argument that the prior arguments were commensurate in scope with the claims (page 7 of response), the Examiner respectfully disagrees.

The Examiner notes that the base claim does not recite a perovskite manganese oxide, the reference EP '647 recites the broad class of A1-xBxMnO3 perovskite manganese oxides (paragraph 0015), and the relied upon reference only talks about the failings of Sr or Ca LaMnO3 perovskite oxides (Introduction section). Hence, none of the above are identical in scope.

Regarding applicants' argument that the cited pertinent prior art must be applied in the basis of the rejection (page 7 of response), the Examiner respectfully disagrees. In addition, the Examiner respectfully disagrees with applicants' argument that there is no expectation of success in reducing the thickness of the phase-change layer (page 8 of response).

The Examiner has rejected the claimed limitation on the basis of it being a results effective variable that one of ordinary skill in the art would have possessed the knowledge to optimize based on the known facts that "thinner = less weight, and hence desirable for space applications" and "thicker = better performance". Applicants argued that the affidavit submitted by Mr. Okamoto proved that one of ordinary skill in the art could not obtain the claimed thickness values. The Examiner pointed to the plethora of prior art references which teach differently, albeit utilizing a different method of production of the perovskite oxide films. Applicants are invited to present evidence that the disclosed methods (i.e. sputtering) would result in either an unobvious difference in the perovskite oxides, or render the perovskite oxides unsuitable for the required use in the EP '647 reference (i.e. incapable of meeting the phase change functional limitations recited in claim 1). Presently, there is no evidence of record that a perovskite oxide formed by sputtering would be any different than the ground perovskite oxide films used by applicants.

As such, the Examiner maintains his position that it would have been obvious to optimize the thickness of the film to within applicants' claimed limitation, since space-based applications clearly desire as reduced a weight as possible and the trade off between weight and performance is both recognized, and within the capability to be optimized, by one of ordinary skill in the art.

Applicants further argue that the "Examiner has failed to show where the EP '647 reference teaches: (1) a motivation to make a thinner phase change layer, and (2) how a thinner phase change layer could reasonably succeed in removing the heat from the object without an additional base layer" (page 8 of response).

Applicants are reminded that an invention may be obvious if the prior art has different reasons for doing what the applicant has done. "It has long been held that a rejection under 35 USC 103 based upon a combination of references is not deficient solely because the references are combined based upon a reason or technical consideration which is different from that which resulted in the claimed invention." Ex parte Raychem Corp. 17 USPQ 2d 1417, 1424 (BPAI 1990). Cites In re Kronig 190 USPQ 425 (CCPA 1976); In re Gershon 152 USPQ 602 (CCPA 1967). In addition, the suggestion to combine need not be express and "may come from the prior art, as filtered through the knowledge of one skilled in the art." Motorola, Inc. v. Interdigital Tech. Corp., 121 F.3d 1461, 1472, 43 USPQ2d 1481, 1489 (Fed. Cir. 1997). In the instant case, the base layer is taught as noted in the rejection of record, and the motivation for the reduced thickness is deemed to be clearly within the knowledge of one of ordinary skill in the art, given that the disclosed application would be a space-based application requiring the control of the weight (and hence, thickness).

Finally, applicants appear to be arguing unexpected results in the amount of heat radiated into the external environment upon utilizing the claimed invention (page 8 of response). The Examiner respectfully disagrees.

The Examiner notes that the claimed invention is different in scope to the disclosed embodiments meeting the "superlative" performance alleged by applicants. Specifically, the Examiner notes that the base claim does not recite specific materials or thickness values for the "base material", nor specific materials for the "phase-change substance", both of which the Examiner deems would be required for the claims to be commensurate in scope to any alleged showing of unexpected results.